

PATENT APPLICATION Docket No.: . 301505.3005-100

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

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Ki Hean Kim, Lily Hsu and Hayden Huang

Application No.:

10/642,447

Filed Date:

August 15, 2003

Confirmation No.

1584

Group:

1631 Examiner:

Not Assigned

For:

Systems and Methods for Volumetric Tissue Scanning Microscopy

CERTIFICATE OF MAILING						
I Hereby certify that this correspondence is being deposited with the United						
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on May 3, 2004	Shalow K. Bryd					
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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

	,
Sir:	
This It	information Disclosure Statement is submitted: under 37 CFR 1.129(a), or (First/Second submission after Final Rejection)
[X]	under 37 CFR 1.97(b), or (Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
[]	under 37 CFR 1.97(c) together with either: [] a Statement under 37 CFR 1.97(e), as checked below, or
	[] a \$180.00 fee under 37 CFR 1.17(p), or (More than 3 months after receipt of the International Search Report, but before final action or notice of allowance, whichever occurs first)
[]	under 37 CFR 1.97(d) together with: [] a Statement under 37 CFR 1.97(e), as checked below, and
	[] a \$180.00 fee under 37 CFR 1.17(p), or (Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
[]	under 37 CFR 1.97(i): Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper. (Filed after payment of issue fee)
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<u>Sta</u>	ten	nent Under 37 CFR 1.97(e)						
[]]	Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or						
]	No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.						
<u>Sta</u>	ten	nent Under 37 CFR 1.704(d) (Patent Term Adjustment) Applies to original applications (other than design) filed on or after May 29, 2000						
[.]	Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.						
En [X]		sed herewith is form PTO-1449: Copies of the cited references are enclosed.						
[]]	In accordance with 37 C.F.R. § 1.98 (d), copies of cited references (*list reference not enclosed*) are not enclosed as these references were entered in earlier application, U.S. Application No. [], to which the present application claims priority under 35 U.S.C 120. The earlier application contains copies of the cited references.						
[]]	If copies of references [*list references not enclosed*] would benefit the Examiner of this case, the Examiner is invited to call the undersigned attorney and copies will be forwarded immediately.						
[]]	Listed references [] were cited in the enclosed International Search Report in a counterpart foreign application.						
Co	ncis	se Explanation Requirement (non-English references):						
[]]	The "concise explanation" requirement (non-English references) for reference(s) [under 37 CFR 1.98(a)(3) is satisfied by: [] the explanation provided on the attached sheet. [] the explanation provided in the Specification. [] submission of the enclosed International Search Report. [X] the enclosed English language abstract.						

Please charge any deficiency in fees and credit any overpayment to Deposit Account No. 50-1935.

> Respectfully submitted, **BOWDITCH & DEWEY, LLP**

Monica Grewal

Date: May3rd, 2004 Registration No. 40,056

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Bowditch & Dewey, LLP 161 Worcester Road P.O. Box 9320 Framingham, Massachusetts 01701-9320

`			DATE CONSIDERED					
AT Microscope," Proc. SPIE Vol. 4262, p. 238-246, Multiphoton Microscopy in the Biomedical Sciences, Ammasi Periasamy; Peter T. So; Eds., 4/2001 DATE CONSIDERED								
Kim, K. H., et al., "Three-Dimensional Image Cytometer Based on a High-Speed Two-Photon Scanning								
			tion Based on Hard Tissue Mic		s-Section P	ictures i	in	
Diaspro, Alberto, et al., "Adapting a Compact Confocal Microscope System to a Two-Photon Excitation Fluorescence Imaging Architecture," Microscopy Research and Technique, 47:196-205 (1999).								
	0	THER DOCUMENTS (II	I ncluding Author, Title, Date, Pertinent Pages, Et	c.)				
AQ WO 01/148	53	1 Mar 2001	PCT		· · · · · · · · · · · · · · · · · · ·			
AP JP 2000-15:	5097	6 Jun 2000	Japan				X	
AO DE 198 19		15 Jun 2000	Germany				X	
AN DE 196 32		19 Feb 1998	Germany				X	
AM WO 98/028	51	22 Jan 1998	PCT				 	
AL 0 209 369		21 Jan 1987	EPO		22.30		N	
DOCUMEN	Γ NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS			
		FORE	IGN PATENT DOCUMENTS					
AK								
AJ								
AI			,					
AI 6,423,960		23 Jul 2002	Engelhardt, et al.	250	214 R			
AG 6,366,357		2 Apr 2002	Svetkoff, et al.	356	602			
AE 2001/00522	.57	20 Dec 2001	Magerle	73	105			
AE 5,804,813		8 Sep 1998	Wang, et al.	250	201.3			
AD 5,523,543		4 Jun 1996	Hunter, Jr., et al.	219	121.62			
AC 5,283,433		1 Feb 1994	Tsien	250	234			
AB 5,139,338		18 Aug 1992	Pomerantz, et al.	356	376			
AA 4,960,330	r number	2 Oct 1990	NAME Kerschmann	CLASS 356	SUB- CLASS	FILING I APPROI		
		0.3	TATENT BOCOMENTS					
	- Car	MADEMARY	. PATENT DOCUMENTS					
	PATE	25/	August 15, 2003	1631	GROUP ART UNIT			
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		1,487	APPLICANT					
INFORMATION DISCLO	SURE CITATION	10	301505.3005-100	10/642,4	47			
PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION May 3, 2004			APPLICANT So, et al.	301505.3005-100 10/642,44 APPLICANT So, et al.	301505.3005-100 10/642,447 APPLICANT So, et al.	301505.3005-100 10/642,447 APPLICANT So, et al.		

PTO-1449 REPRODUCED			ATTORNEY DOCKET NO.	APPLICA'	APPLICATION NO.				
INFORMATION DISCLOSURE CITATION IN AN APPLICATION			301505.3005-100	10/642,44	10/642,447				
11		May 3, 2004	Y Y	APPLICANT					
Way 3, 2004				So, et al.					
8		(Use several sheets if necessary)		FILING DATE	GROUP A	RT UNIT			
				August 15, 2003	1631	631			
			U.S.	. PATENT DOCUMENTS	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE		
	Î								
	•		FORE	IGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO		
		O	THER DOCUMENTS (I	ocluding Author, Title, Date, Pertinent Pages, Etc.))				
	Kim, Ki Hean, et al., "High-Speed, Two-Photon Scanning Microscope," Applied Optics, 38(2): 6004-6009 (1999, October 1).								
	AV	Periasamy, Ammasi, et al., "An Evaluation of Two-Photon Excitation Versus Confocal and Digital Deconvolution Fluorescence Microscopy Imaging in Xenopus Morphogenesis," Microscopy Research and Technique, 47:172-181 (1999).							
	AW	Rademann, Jőrg, et al., "Spatially Resolved Single Bead Analysis: Homogeneity, Diffusion, and Adsorption in Cross-Linked Polystyrene," Chem Eur. J., 7(18):3884-3889 (2001).							
	AX	Shelden, E., and Knecht, D.A., "Reconstruction and Display of Curvilenear Objects From Optical Section Data Using 3-D Curve Fitting Algorithms," Journal of Microscopy, 191(1):97-107 (July 1998).							
	AY	So, Peter T.C., et al., "Two-Photon Exitation Fluorescence Microscopy," Annu. Rev. Biomed. Eng., 02:399-429 (2000).							
	AZ								
								-	
EXAMINI	ER	•		DATE CONSIDERED					